# MAASAI MARA UNIVERSITY

## REGULAR UNIVERSITY EXAMINATIONS

## 2022/ 2023 ACADEMIC YEAR

### FIRST YEAR SECOND SEMESTER
### SCHOOL OF BUSINESS AND ECONOMICS.
### DEGREE IN ECONSTAT, FINANCIAL ECONOMICS AND ECONOMICS.

### COURSE CODE: ECO 1207-1

### COURSE TITLE: COMPUTER APPLICATION AND DATA PROCESSING.

DATE: , 2023                                             TIME:

**INSTRUCTIONS TO CANDIDATES**

Answer Question ONE and any other TWO questions

*This paper consists of Four printed pages. Please turn over.*

**Question One**                                                    **(20 MARKS)**

   a. Group the following variables into the appropriate level of measure
                                                                      **(3 marks)**

       i.    Medal award in an Olympic game
      ii.    Temperature in $^0C$
    iii.    Religion

   b. Give the following question the appropriate question type   **(3 marks)**
       i.    What is your marital status?
      ii.    What is the GPS of your house?
    iii.    What is your weight in Kg?

   c. Give two advantages of high level languages.          **(2 marks)**
   d. Explain the meaning of Magnetic Ink Character Recognition.  **(2 marks)**

   e. Using a well labelled diagram, discuss the anatomy of computer

                                                                       **(7 marks)**

   f. Explain the functions of the following columns in XLSForm creation
                                                                  **(3 marks)**
       i.    Required
      ii.    Constraint
    iii.    Relevant

**Question Two** **(15 MARKS)**

a. Give the meaning of the following terms as used in data management
**(4 marks)**

    i.     Selection
    ii.    Sorting
    iii.   Aggregating
    iv.   Restructuring

b. A data set contains Five variables (Gender, Age, Weight, Religion and Marital_status). The variables Gender, Religion and Marital status were coded as follows: Gender (1 = Female, 2=Male), Religion (1 = Christian, 2= Catholic, 3 = Muslim, 4 = Other religions), Marital status (1=Single, 2 = Married, 3 = Widowed, 4 = Separated). Write down SPSS code that will do the following;

    i.     Select Females who are Muslims and weigh at least 35 Kg.
**(2 marks)**

    **ii.**    Filter out Married youths (A youth is a person between 18 – 35 years). **(2 marks)**

    **iii.**   A 32-year-old single lady is looking for a Muslim guy who is older than her. Kindly write a code to assist him with this for the given data set. **(2 marks)**

c. Explain what is meant by encrypted form and how to encrypt an XLSForm

**(5 marks)**

**Question Three** **(15 MARKS)**

a. Explain four components that are necessary for a user to get on net with

a full graphic interface **(4 marks)**

b. Discuss the classification of computer according to storage capacity,

speed and purpose for which they are developed **(6 marks)**

c. State three factors to consider when purchasing a computer **(3 marks)**

d. Differentiate between optimal character recognition and optimal mark

recognition **(2 marks)**

## Question Four (15 MARKS)

a. You have been appointed as one of the committee members to participate in a research title "Analysis of economic development of Kenya from 2013-2023". The research intends to use primary data. You have been assigned a role to construct a good written survey instrument that will provide valid and reliable information.
   i.    Discuss some of the activities to be investigated before constructing the instrument **(8 marks)**
   ii.   Do you think that in order to attain a maximum response to the questions in the instrument, some principles should be adhered to during the process of constructing the questions? If yes, explain
   **(7 marks)**

**END>>>>>>WISH YOU WELL>>>>>>>>>>>>>>>>>>>>>**